MLC 226 IP

MEDIALINK® CONTROLLER WITH IP LINK®

Easy-to use, enhanced remote control panel for simplified A/V system control

- Universal projector control
- Integrated IP Link provides:
  - Proactive maintenance
  - Event scheduling
  - Remote technical support
  - Theft alerts
- Six room control relays
- Configurable backlit buttons
- Inactivity timer for display shut-off
- Front panel security lockout
- Volume control with five level-status LEDs
- Versatile mounting options

Extron® Electronics

www.extron.com

Introduction

Extron MediaLink is a family of economical easy-to-install and easy-to-use products that work together to connect, control and switch A/V presentation equipment in small classrooms and conference rooms. All MediaLink Controllers, MediaLink Switchers, and accessories are designed to simplify installation and operation of presentation systems. The complexity often associated with A/V integration is replaced with standardized and simple one-touch functionality that provides a complete system solution.

Centralized Room Control

Extron's MediaLink Controllers simplify system management and monitoring by centralizing all of the control elements of an A/V system.

MediaLink Controllers are compatible with a variety of projectors and displays and eliminate the learning curve often associated with operating complicated control systems. These self-contained controllers consolidate functionality and control of all connected A/V and room devices into one, easy-to-use system. There are no complicated remotes to lose or worry about, no batteries to wear out, and no confusing menus to memorize. In facilities where brands and types of projectors, DVD players, and VCRs may vary from room to room, controlling the A/V system with a MediaLink Controller is always the same no matter where it is installed, enabling a user to walk in and begin a presentation without uncertainty or delay.

MediaLink System Configuring

Configuring the MediaLink System is simple and intuitive using Extron's free software. There's no need for intricate programming, special codes, scripts, or proprietary languages. MediaLink configuration is as easy as navigating through a graphical user interface and making the appropriate selections to suit the needs of the application.

IP Link® Remote Monitoring and Control

Extron IP Link technology is a key feature of two MediaLink Controller models, the MLC 104 IP Plus and MLC 226 IP. Extron's Free GlobalViewer™ Web-based application, enables you to remotely control and monitor MediaLink Controllers, attached projectors, and other connected A/V devices from any computer on your network. It can be used to simplify and automate resource management and technical support tasks, such as turning displays on and off, reporting lamp hours, and sending theft alerts. Altogether, IP Link and GlobalViewer provide a cost-effective means of centralizing A/V system management and monitoring, thus enabling a higher level of A/V system support that reduces demands on personnel.

Introduction

Versatile Mounting Options

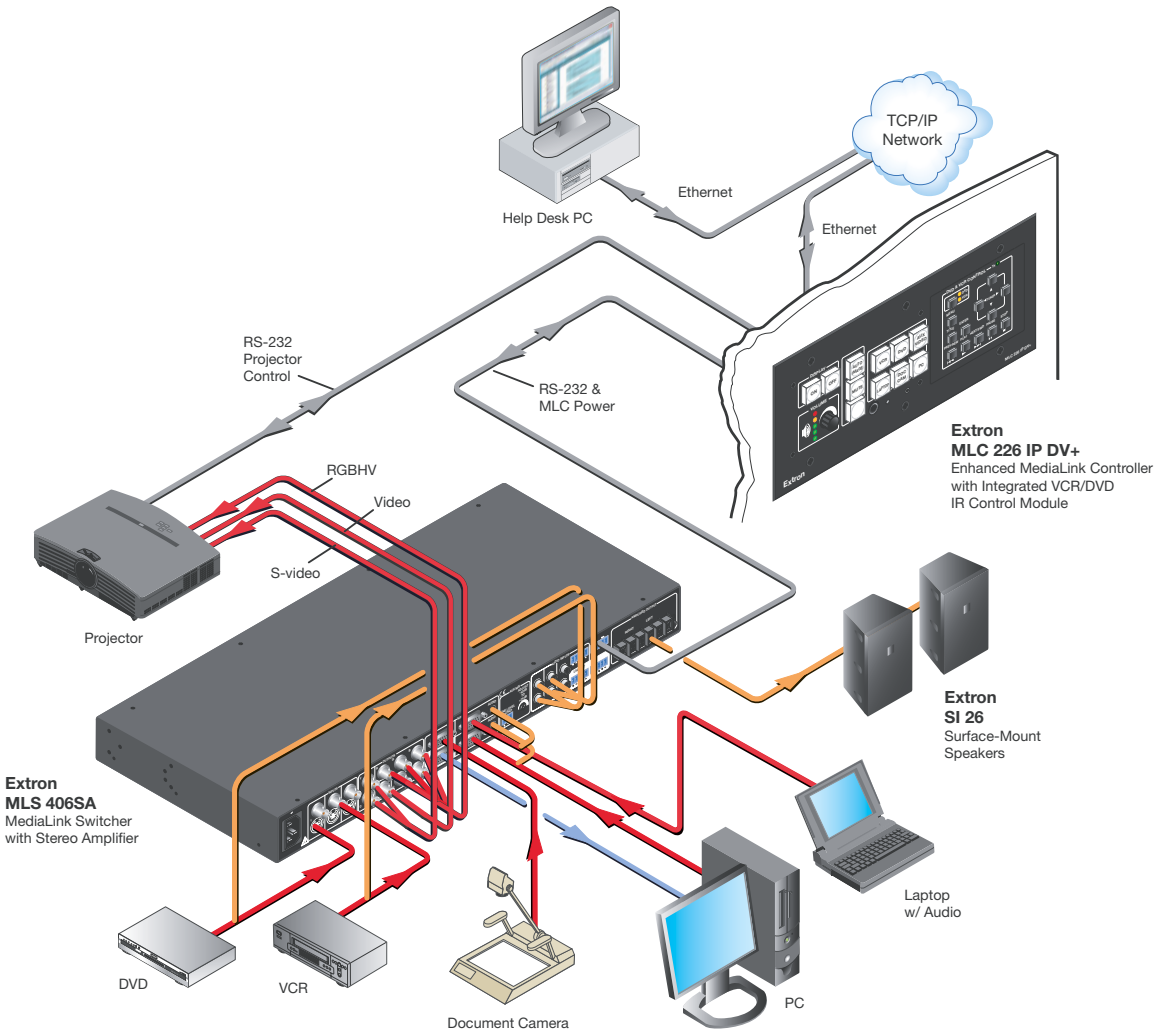
MediaLink Controllers and MediaLink Switchers are housed in secure, tamper-resistant enclosures. They maintain the same control layout regardless of where they are mounted: lecterns, desks, walls, A/V equipment racks, or wall boxes. Mounting kits are available to accommodate various installation requirements. These kits provide supplemental functionality and control with additional buttons, knobs, and openings for Architectural Adapter Plates, which enable the addition of signal pass-through connections or device control modules.

Multiple Switching Options

Extron offers over a dozen MediaLink Switchers, ranging in size from two to six inputs. Each MediaLink Switcher allows for system expansion where more inputs are required than what a display can handle. Some MediaLink Switchers also feature integrated mono or stereo audio amplifiers with microphone input, as well as an output for assisted listening systems. MediaLink Switchers are specifically designed to be used in conjunction with MediaLink Controllers to facilitate low-cost integration and expansion; they may also be used as stand-alone switchers.

MediaLink Accessories

There are several MediaLink accessories available for the MediaLink family. A Secondary Control Panel duplicates the MediaLink Controller's front panel and offers a second access point within a room to control switching, volume, and the display. Other accessories include IRCM AAPs for VCR and DVD control, IR remotes, faceplates, mud rings, and junction boxes.



Enhanced Classroom Application with MediaLink Controller and Switcher

MLC 226 IP

The Extron MLC 226 IP MediaLink Controller is an enhanced control panel for controlling A/V equipment in any classroom or conference room. It standardizes the control interface for all systems, making display systems simple to use. Standardization also makes setup and maintenance easier to support.

IP Link® Ethernet Control

The MLC 226 IP is equipped with Extron's IP Link, an IP integration technology specifically engineered to meet the needs of professional A/V environments — from small K-12 classrooms to large universities and businesses. The MLC 226 IP is fully supported by our Free GlobalViewer® Web-based A/V resource management application and GlobalViewer® Enterprise server-based A/V resource management software.

Universal Projector Control

The MLC 226 IP is equipped with a dedicated port for communicating with virtually any projector or display via IR or bidirectional RS-232. Hundreds of device drivers are available for download at no charge from our Web site at www.extron.com.

Configurable, Backlit Buttons

With the MLC 226 IP, presenters with little or no training can walk into any multimedia classroom and operate the A/V system. The backlit buttons on all MediaLink Controllers are configurable to control input switching, power, and volume. Because the buttons illuminate, they are simple to see and operate in low-light environments. In addition, the backlit buttons can be custom-labeled. A sheet of pre-printed text and icon-based labels is included with each MediaLink Controller to facilitate quick and trouble-free identification.

Macro Capability

The backlit source selection and room control buttons of the MediaLink Controllers can be configured to execute multiple actions through serial RS-232 and IR control ports. For instance, the touch of a single button can trigger commands to turn on a projector, select the projector's computer video input, and select a source input on a MediaLink Switcher.

Room Control

External devices such as lighting, screens, projector lifts, or other products can be controlled via internal relays found on the MLC 226 IP. The relays can be activated through the front panel, SCP 226 Secondary Control Panel, optional IR 402 infrared handheld infrared remote, serial RS-232, or free Extron software.

Inactivity Timer

All MediaLink Controllers feature an adjustable timer that automatically shuts down the projector or display to conserve energy and projector lamp life. The timer is triggered when front panel operations remain dormant, and is based on an adjustable, user-defined period of up to 12 hours in 30-minute increments.

Front Panel Security Lockout

Every MediaLink Controller features Front Panel Security Lockout. When the lockout mode is engaged, the front panel of the MediaLink Controller becomes inoperable. No functions of the controller or IR remote can be activated, although it is still accessible via IR, serial RS-232, or IP Link. This feature safeguards the system from unauthorized access.

Control Modules

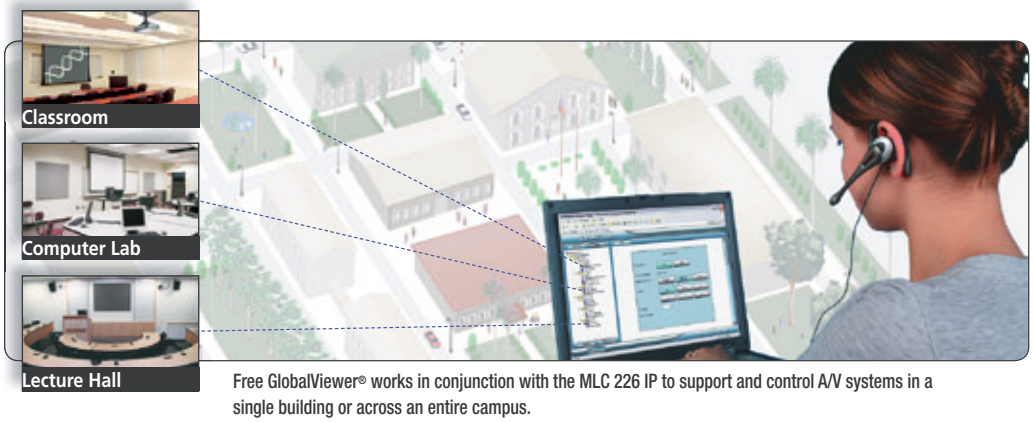
There is a wide selection of Extron Control Modules available for customized remote control of external devices such as VCRs, DVD players, and audio tape decks, as well as screens, lighting, and basic audio adjustments. Integrating DVD and VCR Control Modules into a MediaLink system eliminates the clutter and confusion that comes with multiple handheld remote controls.

Versatile Mounting Options

Several mounting options are available for the MLC 226 IP. Additional mounting kits are available for local input expansion, adding transport controls, or to accommodate installation in a lectern, external wall box, equipment rack, or desk.

MLC 226 IP shown with IRCM-DV+ DVD/VCR Control Module

Extron Control Modules eliminate the need for multiple remotes.



Free GlobalViewer® works in conjunction with the MLC 226 IP to support and control A/V systems in a single building or across an entire campus.

MLC 226 IP

Room Control
For controlling screens, lights, and other devices

Faceplate Options
Black, White, and RAL9010 White models are standard options. Brushed aluminum finish mounting kits are also available.

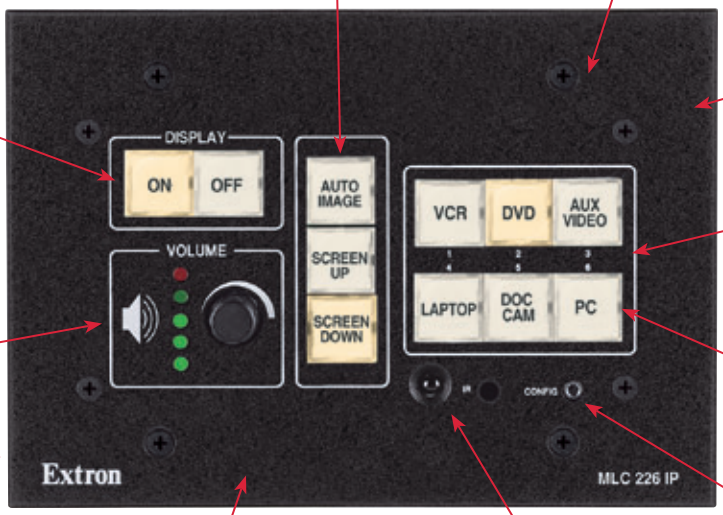
Display ON/OFF
Discrete, backlit buttons simplify system operations and eliminate the need for an external display remote

Front Panel Security Lockout
Four digit "PIN" prevents unauthorized system use

Source Selection
Select from any of the A/V devices connected to the switcher

Volume Control
Five level status LEDs provide visual representation of the display's or switcher's volume setting

Backlit Buttons
Illuminated buttons are easy to custom-label for identification and are helpful for presenters in low-light environments



MLC 226 IP
Front Panel

Configuration Port
Allows for configuration of the MLC 226 IP via the front panel

Variety of Mounting Options Available
Can be mounted virtually anywhere such as a lectern, A/V equipment rack, or on a wall

Inactivity Timer for Display Shut-Off
Adjustable timer controls automatic shutdown to conserve energy, prevent plasma burn-in, or extend projector lamp life

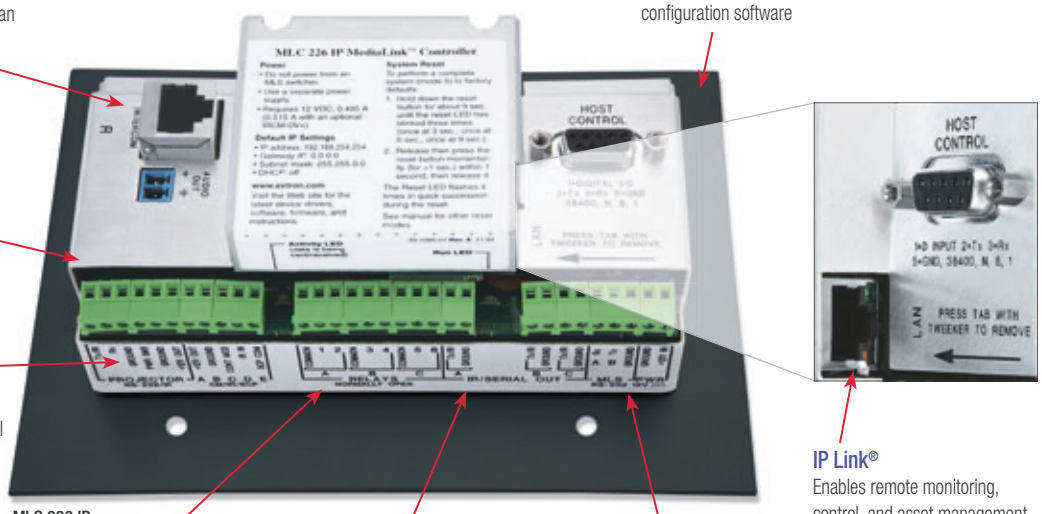
IR Learning and Control
Allows for wireless control and customized control of source devices such as VCRs and DVD players

IP Intercom®
The RJ-45 IP Intercom port allows for simple connectivity to an IPI 101 AAP or IPI 104 AAP intercom station

Easy to Configure
Simple, one-time setup with easy-to-use, configuration software

Display Control
Allows for bidirectional serial RS-232 display control

Optional IR Control Modules
Optional Control Modules enable operation and customized control of source devices such as VCRs or DVD players



MLC 226 IP
Back Panel

IP Link®
Enables remote monitoring, control, and asset management

Relays
Six relays are available for control of room devices such as lighting, screen settings, and drapes

IR/Serial Ports
Three ports are available for IR or one-way serial control of external devices

Switcher Control
Provides control of an optional MediaLink Switcher via bidirectional serial RS-232

MLC 226 IP MediaLink Controller Models

MLC 226 IP MediaLink Controllers are available in several different form factors: in a standard three-gang faceplate, with AAP openings, or a lectern faceplate. Each MLC 226 IP can be used to directly control a single projector in a simple presentation environment or in tandem with a MediaLink Switcher to expand the capabilities of an A/V system. Altogether, the MLC 226 IP Series is optimized for superior integration, easy control, and high performance.

MLC 226 IP

Enhanced MLC - MediaLink Controller with IP Link

UNIQUE FEATURES

- Three-gang faceplate

MLC 226 IP DV+

Enhanced MLC - MediaLink Controller with IP Link and Integrated DVD and VCR IR Control

UNIQUE FEATURES

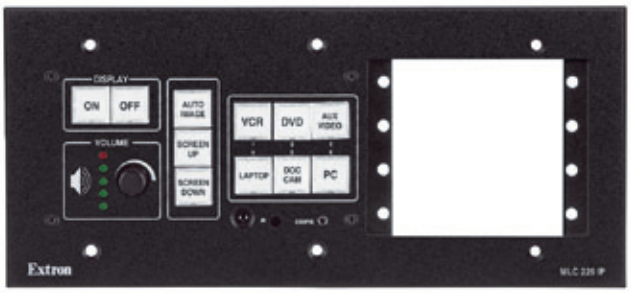
- Five-gang faceplate
- Dual-function DVD and VCR IR control

MLC 226 IP AAP

Enhanced MLC - MediaLink Controller with IP Link and AAP Opening

UNIQUE FEATURES

- Five-gang faceplate
- Opening for up to four single space AAP - Architectural Adapter Plates — AAPs sold separately



MLC 226 IP MediaLink Controller Models

MLC 226 IP L

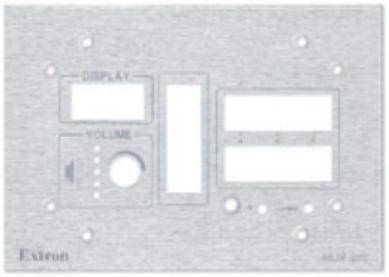
Enhanced MLC - MediaLink Controller with IP Link and Lectern Faceplate

UNIQUE FEATURES

- Low profile, 3.2" (8.1 cm) tall faceplate fits into a compact space on a lectern or desk
- Mounts in a rack or wall using an Extron UCM RAAP Universal Controller Mounting Kit

MLM 226 3GWP

Three-Gang Wall Mounting Kit for the MLC 226 IP



UNIQUE FEATURES

- Replacement faceplates to match room décor
- Available in Black & White, or Brushed Aluminum

MLC 226 IP SECONDARY CONTROL PANELS

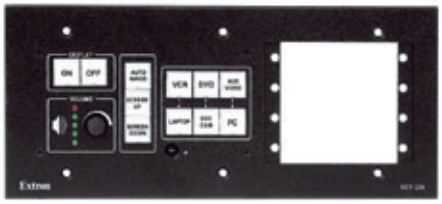
Optional Secondary Control Panels provide a second access point within a room to control switching, projector, and audio volume by duplicating the front panel buttons of the MLC 226 IP MediaLink Controllers. Secondary Control Panel models are available in black, white, or RAL9010 white.

SCP 226

Secondary Control Panel for MLC 226 IP

UNIQUE FEATURES

- Three-gang faceplate



SCP 226 AAP

Secondary Control Panel with AAP Opening for MLC 226 IP

UNIQUE FEATURES

- Five-gang faceplate
- Opening for up to four single space AAP - Architectural Adapter Plates — AAPs sold separately

SCP 226 L

Secondary Control Panel with Lectern Faceplate for MLC 226 IP

UNIQUE FEATURES

- Low profile, 3.2" (8.1 cm) tall faceplate fits into a compact space on a lectern or desk
- Mounts in a rack or wall using an Extron UCM RAAP Universal Controller Mounting Kit

IP Intercom®

The Extron IP Intercom System is an easy-to-use two-way intercom designed specifically to meet the needs of the education market. Using a school's existing local area network, the IP Intercom System makes it easy to deploy live help desk support for every classroom. Extron IP Intercom stations and IP Intercom HelpDesk software do not require any upgrades to network protocols and are designed to work with any healthy network.

It is easy to deploy IP Intercom in classrooms along with the MLC 226 IP MediaLink Controller using an IPI 100 Series IP Intercom station and Extron IP Intercom HelpDesk™ software installed on a central office or help desk PC. The software can be used both to configure and manage IP Intercom system operations remotely.

Why Use an IP Intercom System?

New and emerging IT and presentation technologies enable instructors to help their students comprehend complex concepts and engage them in the learning process. A lack of sufficient tech support resources often creates obstacles to the use of advanced presentation technology. Extron has developed some practical solutions to address this problem. Adding IP Intercom to an A/V system makes it easy to provide two-way, half-duplex voice communications between classrooms and the central office or instructional technology help desk. This allows instructors to quickly request assistance and describe the problem they are having. Using Extron's GlobalViewer Web-based remote asset management software and IP Link enabled MLC 226 IP MediaLink Controllers, the help desk operator can check the status of A/V devices in the room, identify the problem, and even provide remote system control to rectify the issue. Extron's IP Intercom provides effective internal communications and a much higher level of technical support, while saving valuable time, money, and resources.

Uses an Existing Network Drop

Only one IP address and network drop are needed for each A/V system because the IPI Intercom stations use the same network drop as the MLC 226 IP. By using the existing network drop, there is no additional expense for installing a second network cable and the number of switch ports is reduced, often resulting in a substantial cost savings.

Simple Hardware Installation and Connectivity

The IPI 100 Series IP Intercom Stations work together with the MLC 226 IP MediaLink Controller for operation. For installation flexibility, IPI 100 Series stations can be mounted in an MLC 226 IP AAP or in a separate AAP mounting frame and positioned anywhere in the classroom, up to 100 feet (30 meters) away from the MediaLink Controller.

Once installed, the intercom station connects to the MLC 226 IP via an RJ-45 "Intercom" port located on the rear panel of the controller. This port provides power, control, and audio transport between the two products.

Easy Set-up and Configuration

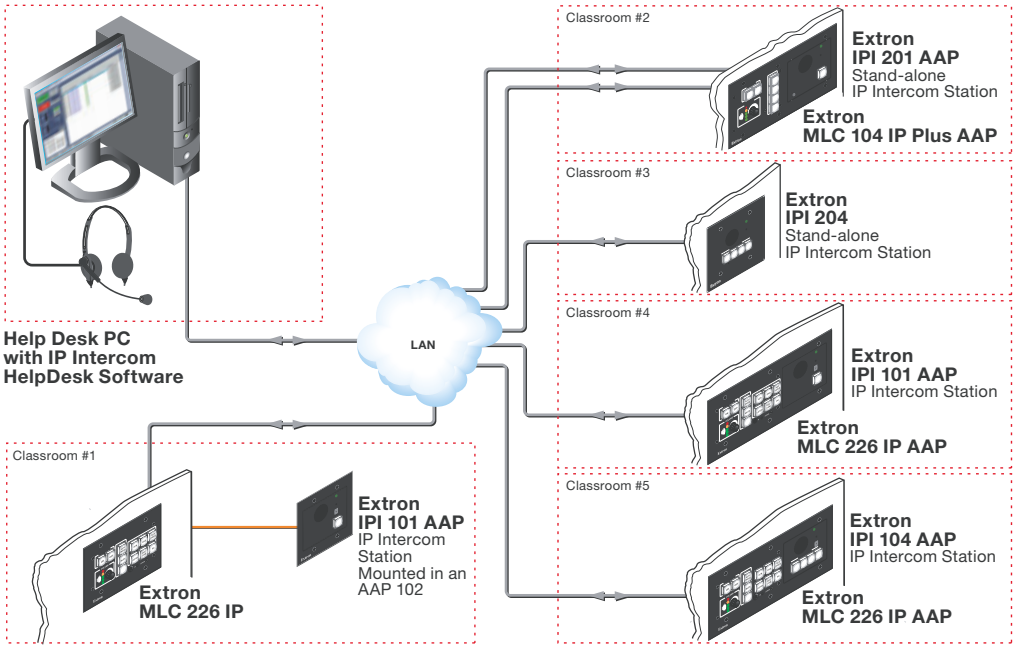
The free IP Intercom HelpDesk software makes it easy to set up, manage, and monitor an IP Intercom system. This software lets you quickly configure system options and does not require any programming knowledge.

Paging Capability

The IP Intercom HelpDesk software also includes a convenient paging capability, allowing the help desk operator to page a single room or a group of rooms simultaneously. A line level audio output is provided for mixing into a local sound system in each room.

Activity Call Logging

Using the intuitive IP Intercom HelpDesk software, intercom calls and pages can be logged, and date/time-stamped on the help desk computer. Activity logs can be accessed and archived for record keeping and tracking purposes.



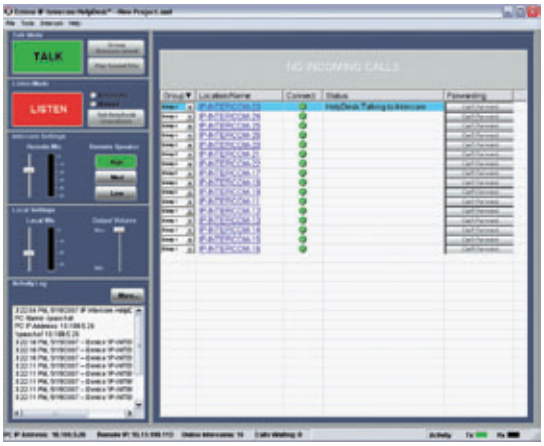
IP Intercom

Security

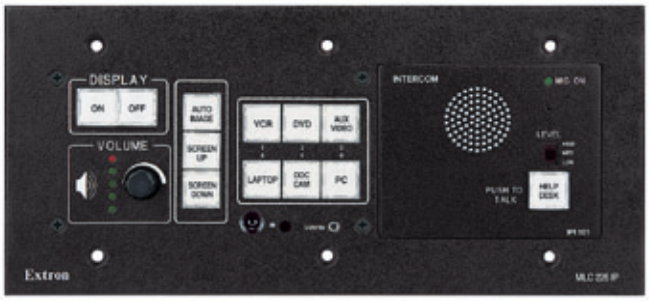
The IP Intercom System enhances security operations by allowing audio monitoring for each room. Help desk operators or other authorized personnel can use the IP Intercom's audio monitoring capability to listen to the activity in the room, especially after hours, helping them determine if security personnel should be dispatched to investigate. Audio monitoring can be disabled, if necessary, to comply with local regulations and policies.

With IP Intercom HelpDesk™ software you can:

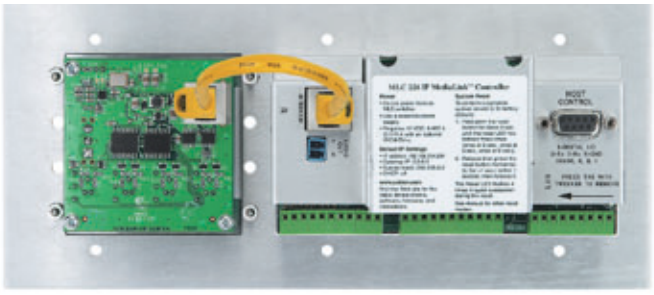
- Communicate with a single room to provide technical support
- Identify IP Intercoms by location and IP address
- Create calling groups for broadcast messages
- Page a single room or group of rooms simultaneously
- Store and transmit pre-recorded voice announcements to one or more rooms
- Monitor audio in room for security
- Control access to the help desk with administrator and user passwords
- View detailed information from multiple intercom stations at the same time



IP Intercom HelpDesk Software



MLC 226 IP AAP with IPI 101 AAP
Front Panel



MLC 226 IP AAP with IPI 101 AAP
Back Panel

IPI 101 AAP

One-Button IP Intercom Station for Use With MLC 226 IP

- Provides two-way, half-duplex voice communication over an IP network
- For use with IP Intercom-enabled MLC 226 IP MediaLink® Controllers
- One backlit, configurable Push To Talk button for communicating with one recipient
- Integrated speaker and microphone
- Three-position switch to adjust speaker levels
- LED indicator shows when microphone is on
- Section 508 Compliant
- Available in black or white version

IPI 104 AAP

Four-Button IP Intercom Station for Use With MLC 226 IP

- Provides two-way, half-duplex voice communication over an IP network
- For use with IP Intercom-enabled MLC 226 IP MediaLink® Controllers
- Four backlit, configurable Push To Talk buttons for communicating with four different recipients
- Integrated speaker and microphone
- Three-position switch to adjust speaker levels
- LED indicator shows when microphone is on
- Section 508 Compliant
- Available in black or white version

Graphical User Interface

One of Two free templates that can be downloaded from the Extron Web site

Graphical User Interface Option

Technology enhanced classrooms provide instructors with new tools to teach and interact within the presentation environment. Many instructors prefer the flexibility of not only controlling the environment via an in-room controller mounted on a wall or lectern, but also from a control page on a computer monitor or wireless device. Now, you can economically deliver a graphically rich control environment in each and every room, along with the powerful management capability of a network-enabled MediaLink Controller.

Extron's graphical user interfaces, or GUIs, are functional, intuitive, and easy to use. The integrated IP Link Web server in the MLC 226 IP controller makes adding a high quality customized user interface easy and enables control from any networked PC or laptop using either a mouse or touch-monitor in the room. Your AV/IT facility support team will still be able to provide remote interactive support for all users from within the free GlobalViewer® management environment.

Extron offers two ways to create a custom GUI for your installation. You can create your own using our free templates or let Extron software developers do the work for you with our economical GUI Customization Service.

Download Free Templates and Do It Yourself

Our free user interface software development kit includes modifiable templates that can be downloaded from the Extron Web site at **www.extron.com/gui**. The kit includes Adobe Photoshop template files and code samples that you can use to create and deploy your own custom GUI. A detailed "getting started" guide is also included with instructions on modifying the template files and code, how basic communication is handled by the system, and loading and testing the base templates.

GUI Customization Service: Extron Does The Work For You

Ordering a custom GUI for your organization is as easy as contacting an Extron Customer Support Representative and describing what you need. For a small fee, Extron will take care of all the details.

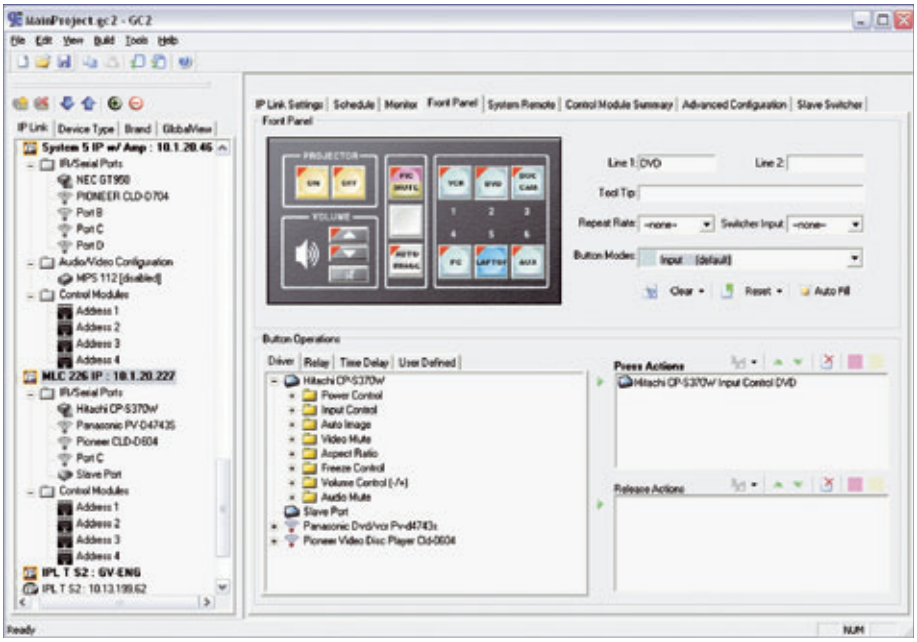
Our software development team will create a mockup of your customized GUI. When you are completely satisfied with the design mockup, Extron software programmers will develop your custom GUI according to your exact specifications. The files will be fully tested using the same model of MLC 226 IP controller used in your A/V system. When the testing is done, an Extron Application Engineer will send you your GUI files and work with you to install the GUI on your system.

Free Global Configurator Software

MEDIALINK® PRODUCTS ARE SIMPLE AND EASY TO CONFIGURE... NO PROGRAMMING KNOWLEDGE IS REQUIRED

Extron's free Global Configurator puts all of the most commonly used system monitoring and control options at your fingertips. One of the costliest aspects of building an A/V resource management system, in terms of human resources and time, is programming. A/V system programming can be a complex task that requires the skills of an experienced programmer.

Extron's configuration approach offers tremendous benefits over traditional system programming methods, particularly for those who have medium-to-large installations to connect, monitor, and maintain. Configuring MediaLink products is as simple as selecting choices from intuitive, drop-down menus instead of writing, compiling, and debugging complicated computer source code. Should system changes, such as a new VCR or DVD player, need to be made in the future, an experienced programmer is not required.

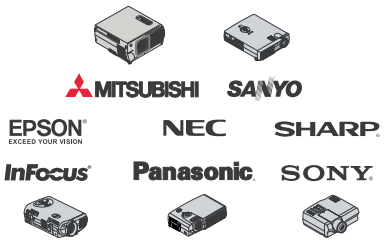


Nearly Anyone Can Configure A System

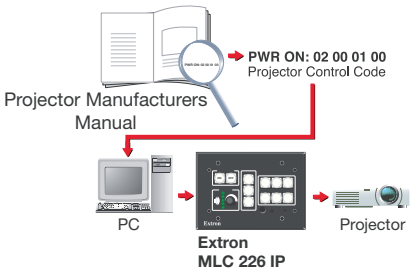
Non-programmers can use our free Global Configurator software to build a complete A/V asset management and monitoring system, freeing up programmers for other projects.

System Changes Take Less Time

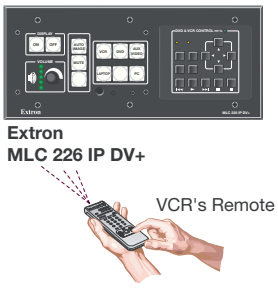
Configuration means that initial system setup time is reduced, and there's no need to delay making changes because you are waiting for a hard-to-find programming resource.



Extron offers hundreds of drivers from many major projector and display manufacturers



Extron-provided software allows for customized projector control



IR Learning for VCR and DVD control

Free Projector Drivers

Extron creates and administers a wide selection of commonly used projector control drivers. These IR and serial RS-232 drivers allow MediaLink Controllers to communicate with a display device. They enable control of basic projector functions such as power, input selection, and volume adjustment. Go to the Extron Web site at www.extron.com to download drivers for the latest and most popular projectors.

Custom Serial RS-232 Control

In environments where customizable projector control is needed, integrators can easily enter in their own RS-232 commands. RS-232 commands can be assigned to any button using the provided configuration software. The MediaLink Controllers will work with virtually any projector.

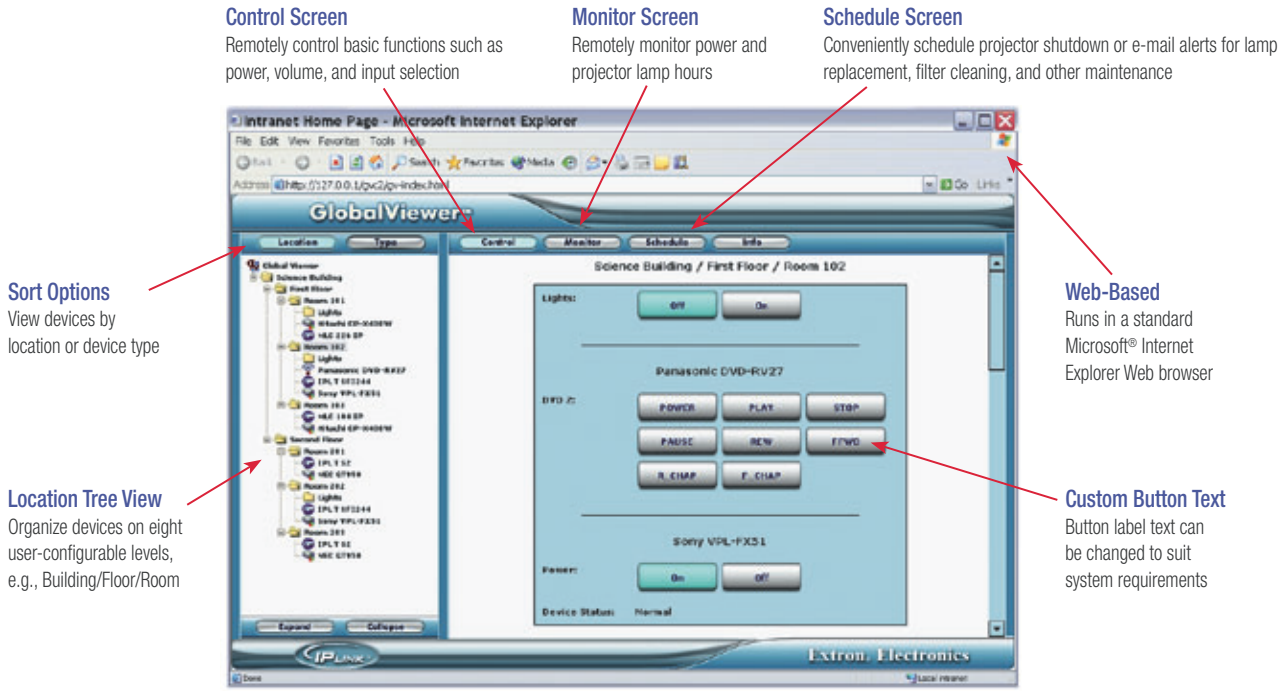
IR Learning

Serial RS-232 is the preferred method of control; however, many ultra portable projectors can only support IR control. Various MediaLink Controller models can learn IR commands from virtually any IR controllable device. IR learning can also be used in conjunction with optional IRCM Control Modules that control source devices such as VCRs, DVD players, and audio tape decks.

Free GlobalViewer® Software

Free GlobalViewer®, a Web-based A/V resource management application for the MLC 226 IP MediaLink Controller, is a powerful, flexible way to manage, monitor, and control these and other Extron IP Link products and the devices connected to them over a standard TCP/IP network. Together, GlobalViewer and MediaLink Controllers with IP Link are ideal for use by schools and universities, corporate offices, government facilities, and even multi-building presentation environments.

The MLC 226 IP is equipped with Extron's IP Link, an IP integration technology specifically engineered to meet the needs of A/V presentation environments. Free GlobalViewer is designed to work with MediaLink and other Extron products that include IP Link technology. It facilitates key asset management functions and is scalable from small to large scale systems. Free GlobalViewer requires no per-seat charges or license fees.


Control Screen
Remotely control basic functions such as power, volume, and input selection
Monitor Screen
Remotely monitor power and projector lamp hours
Schedule Screen
Conveniently schedule projector shutdown or e-mail alerts for lamp replacement, filter cleaning, and other maintenance
Sort Options
View devices by location or device type
Location Tree View
Organize devices on eight user-configurable levels, e.g., Building/Floor/Room
Web-Based
Runs in a standard Microsoft® Internet Explorer Web browser
Custom Button Text
Button label text can be changed to suit system requirements
Intranet Home Page - Microsoft Internet Explorer
GlobalViewer
Science Building / First Floor / Room 102
Panasonic DVD-RV27
Sony VPL-FX51
Extron Electronics

KEY FEATURES

Available for free from www.extron.com
Extron Global Configurator can be downloaded from the Extron Web site free of charge. There are no per seat charges and no licensing fees.

No programming skills required
Menu-driven wizards guide users through the entire process of organizing system resources, building a network configuration, and uploading configuration files to the system.

Integrated IP Link device management capabilities
Provides full management and control of IP Link devices within Global Configurator, including setting IP properties, passwords, mail server settings, etc.

GlobalViewer host hierarchy for multiple levels of administration
Allows the creation of hierarchal tree views, in which each administrator can access only a subset of an organization's IP Link devices, while the global administrator can access all devices.

Device configuration copy and paste
Enables replication of an existing IP Link device configuration to one or more similar IP Link devices. Makes it easy to duplicate schedule and monitor settings to multiple devices.

Printable wiring diagrams
Gives a user the ability to print a detailed wiring diagram of each configured IP Link device and its connected sources in Microsoft Word Format.

Free GlobalViewer Software

Remote Technical Support

Technicians can troubleshoot systems remotely because Free GlobalViewer provides real-time status of connected devices. Information such as connection status, power state, or current input selection is displayed in a central location. For many connected devices, technicians can toggle power On/Off, switch sources, control volume and more, without leaving their office. Many common problems can be resolved without a trip to where the equipment is located.

Key Benefits:

- Remote device control and access to device status enables remote troubleshooting
- Users receive a quicker response and faster problem resolution
- Centralized technical support enables better response with fewer support staff

Proactive Maintenance

Free GlobalViewer can store information about connected devices such as serial numbers, owner identification, maintenance history, usage data, and installed firmware versions. This centralized data can be used to reduce costs and guide future purchasing decisions. For instance, a projector can be polled routinely to track lamp usage and total life time. When lamp usage reaches a predetermined number of hours, the IP Link enabled device can send a notification via e-mail.

Key Benefits:

- Maintenance and usage data can be used to guide purchasing decisions
- Service times can be proactively scheduled for optimum use of resources
- Improved equipment maintenance results in increased system uptime

Event Scheduling

Free GlobalViewer uses the real-time clock and calendar in IP Link-enabled devices to maximum value. User-defined tasks are easy to configure and schedule with Free GlobalViewer and don't require high-level programming skills. For instance, an administrator may want to turn off all projectors every Friday at close of business. The administrator can schedule the system to turn off all projectors at a specified time, and raise all projection screens that were left down.

Key Benefits:

- Presentation rooms can be automatically prepared for use prior to the scheduled start time of classes or meetings
- Devices can be powered off automatically, reducing lamp and power usage
- Devices can be configured to respond on schedule or to predefined trigger events

Theft Alerts

Extron IP Link enabled devices like the MLC 226 IP are always on and routinely poll their attached devices for status information. If any serially controlled device such as a projector or document camera is physically disconnected from the network, the MLC 226 IP monitoring its status will know immediately. In such an event, Free GlobalViewer can be configured to send an e-mail message notifying security personnel of the possible theft. For immediate response, e-mails can be sent to multiple addresses, including cell phones and wireless PDAs.

Key Benefits:

- Monitoring is automatic; 24 hours a day, 7 days a week
- E-mail alerts can be sent to multiple e-mail addresses simultaneously
- Reduction in losses from theft and vandalism saves money

GLOBALVIEWER® ENTERPRISE

GlobalViewer Enterprise server-based software is the next step up for managing larger A/V installations. It provides an easy upgrade path for existing users of Free GlobalViewer using configuration wizards, not programming. Compatible with most Web browsers, GlobalViewer Enterprise provides enhanced help desk functionality as well as:

Enterprise-Wide Scheduling and Monitoring

With GlobalViewer Enterprise, it's a snap to configure global schedules and conditional monitors that are based on location and/or device type. Step-by-step menus simplify the creation of a broad range of scheduled events and conditional monitors.

Data Logging and Reporting Capabilities

GlobalViewer Enterprise includes a SQL-based data repository for logging device and room data. Data is gathered 24/7 and time-stamped for use in preparing valuable management reports covering network connections, device usage, and A/V equipment inventory.

Multiple User Roles and Permissions

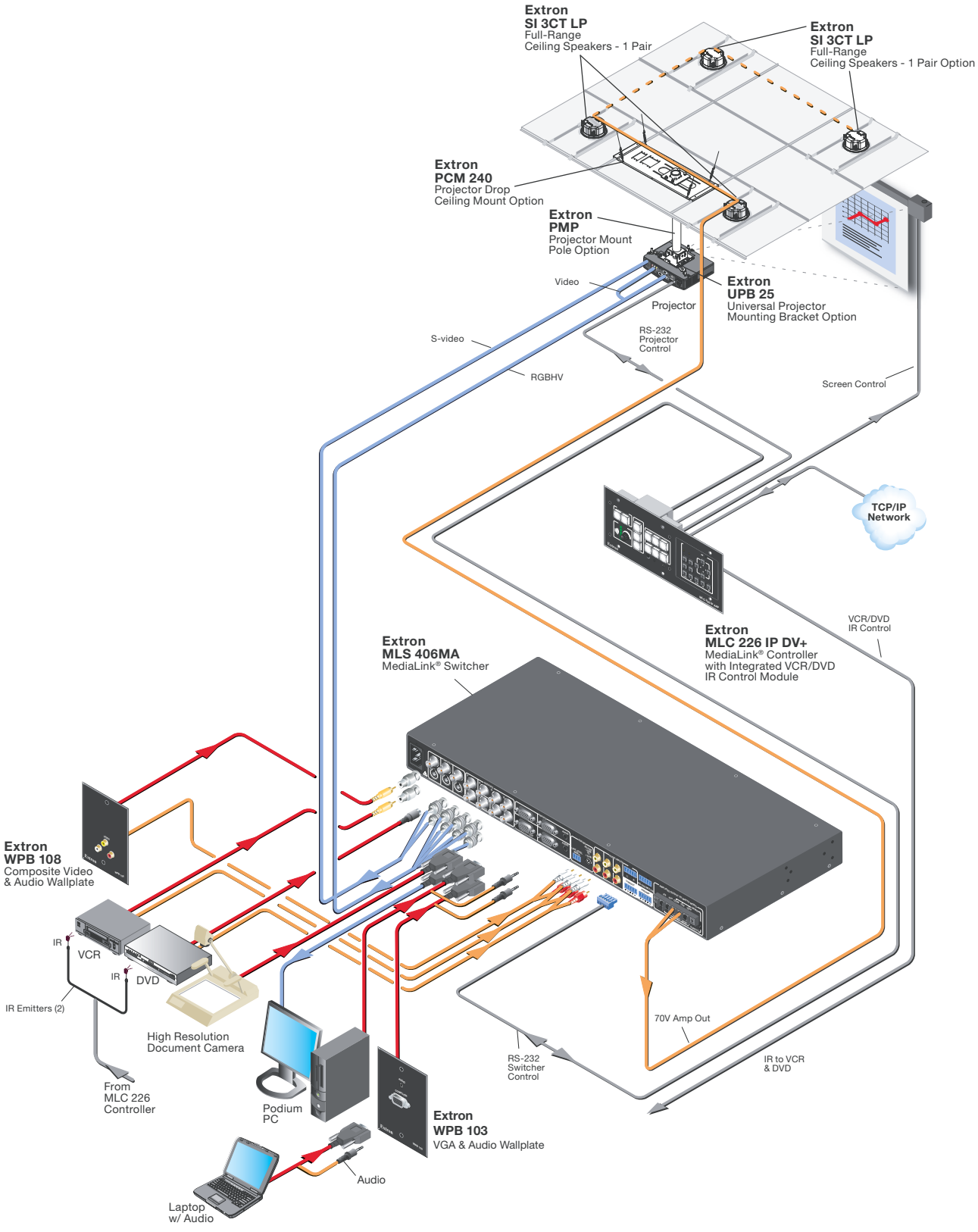
Controlling access for multiple users is made simple through the creation of customized user roles.

Third-Party Scheduling System Integration

GlobalViewer Enterprise supports seamless integration with Microsoft Outlook® via Microsoft Exchange® Server or several of the other popular campus scheduling applications, allowing instant access to room availability and the power to schedule meetings, enhance room usage reports, and even override scheduled display shut-offs automatically.

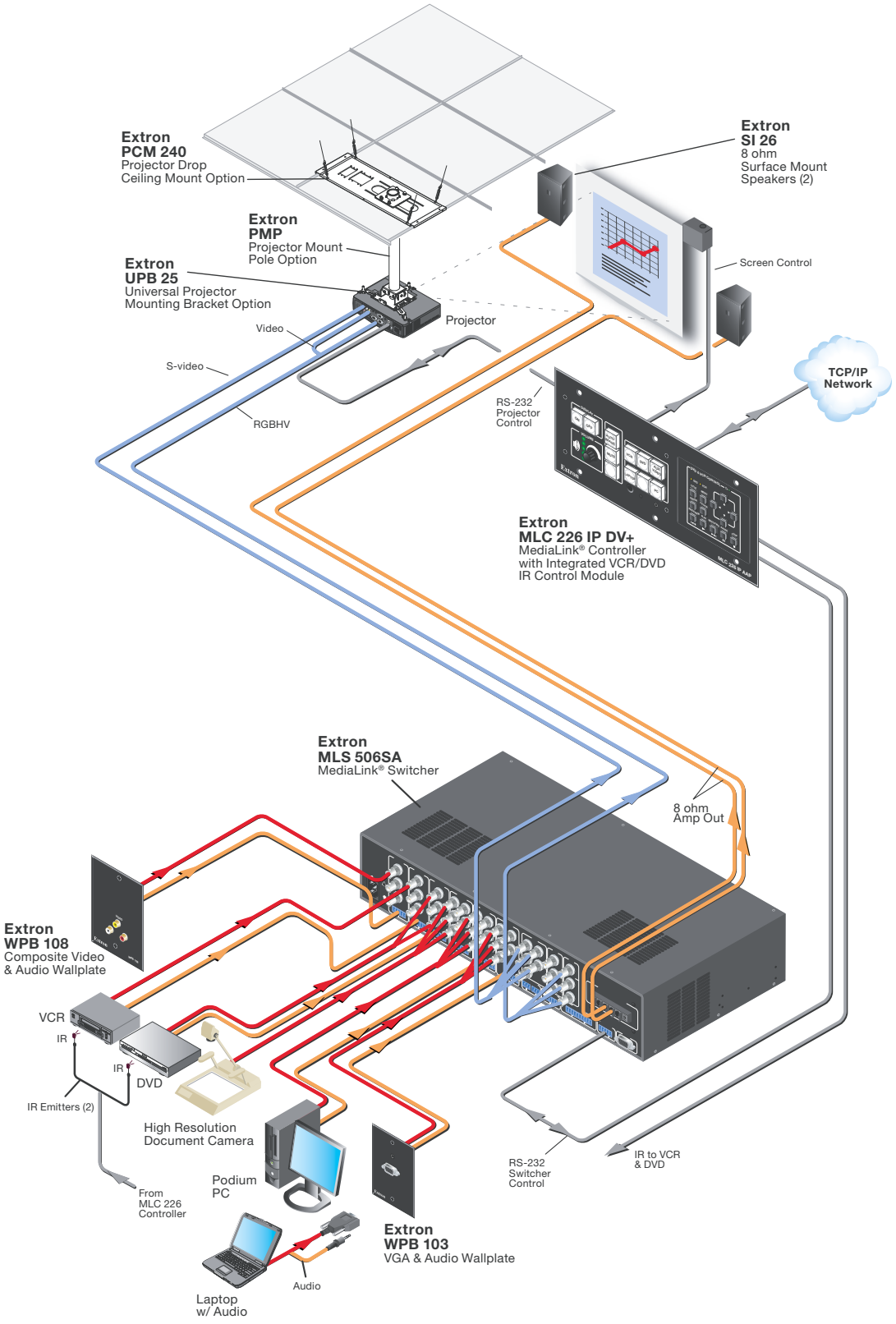
Application Diagram

MediaLink System with Six-Input Switcher and Low-Profile Ceiling Speakers



Application Diagram

MediaLink System with Six-Input Switcher and Wall-Mounted Speakers



Specifications

IP INTERCOM

Connection type (IPIMLC) ..... RJ-45 jack for CAT 5, CAT 5e, or CAT 6 cable

Audio

Frequency response ..... 20 Hz to 3.3 kHz, ±1 dB

Audio processing

Audio format ..... PCM, µ-law companded

Audio output

Number/signal type ..... 1 mono (for use with an optional IP Intercom)

Line level output ..... -10 dBV (316 mVrms), unbalanced (via 3.5 mm captive screw connector, 2 pole)

Communication

Transport bandwidth for IPI control and audio, half duplex ..... 80 kbps (0.08% of 100Base-T)

Ethernet protocol ..... TCP/IP (control), UDP (audio)

CONTROL — HOST PORTS

Serial host port ..... 2 bidirectional RS-232: 1 rear panel 9-pin female D connector (shared with digital input), 1 front panel 2.5 mm mini stereo jack

Baud rate and protocol ..... 38400, 8 data bits, 1 stop bit, no parity

Serial control pin configurations ..... 9-pin female D connector: 2 = TX, 3 = RX, 5 = GND
Mini stereo jack: tip = TX, ring = RX, sleeve = GND

Ethernet host port ..... 1 RJ-45 female

Ethernet data rate (for network communication) ..... 10/100Base-T, half/full duplex with autodetect

Ethernet protocol ..... ARP, DHCP, ICMP (ping), TCP/IP, Telnet, HTTP, SMTP

Ethernet default settings ..... Link speed and duplex level = autodetected
IP address = 192.168.254.254
Subnet mask = 255.255.0.0
Default gateway = 0.0.0.0
DHCP = off

Web server ..... Up to 200 simultaneous sessions
7.25 MB nonvolatile user memory

Secondary control panel (SCP) ..... (1) 3.5 mm 5-pole direct insertion captive screw connector (shared with control module and IR Link port)

IR remote control ..... IR 402 (optional)
Front panel: 30' maximum, 40 degrees off axis
Rear panel: 38 kHz, hardwired, modulated

Program control ..... Extron's configuration program for Windows®
Extron's Simple Instruction Set (SIS™)
Microsoft® Internet Explorer, Telnet

IR learning frequencies ..... 30 kHz to 62 kHz

IR learning distance ..... 2" (5.1 cm) to 12" (30.5 cm) from the front panel

CONTROL — RELAY

Number/type ..... 6 momentary or latching (configurable via software)

Contact rating ..... 24 V, 1 A

CONTROL — SERIAL PORTS

Display control port ..... (1) 3.5 mm direct insertion captive screw connector, 3 pole, programmable for bidirectional RS-232 control (±5 V) or TTL level (0 to 5 V) infrared control up to 1 MHz

Switcher control port ..... (1) 3.5 mm direct insertion captive screw connector, 3 pole, for bidirectional RS-232 control (±5 V)

Baud rate and protocol (RS-232) ..... 115200 to 300 baud (9600 baud = default); 8 (default) or 7 data bits; 1(default) or 2 stop bits; no parity (default), or even or odd parity

CONTROL— IR/SERIAL PORTS

IR/serial control ports ..... (3) 3.5 mm direct insertion captive screw connectors, 2 pole
Programmable: unidirectional RS-232 (±5 V) control, or TTL level (0 to 5 V) infrared control up to 1 MHz

Baud rate and protocol ..... 115200 to 300 baud (9600 baud = default) ; 8 (default) or 7 data bits; 1(default) or 2 stop bits; no parity (default), or even or odd parity

DIGITAL I/O CONTROL

Number/type ..... 1 digital input/output (configurable), 1 digital input

Digital inputs

Input voltage range ..... 0-12 VDC

Input impedance ..... 28k ohms

Programmable pullup ..... 2k ohms to +5 VDC

Threshold low to high ..... >2.8 VDC

Threshold high to low ..... <2.0VDC

Digital output ..... 250 mA sink from 24 VDC, maximum

GENERAL

External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated

Power input requirements

MLC 226 IP DV+ ..... 12 VDC, 0.515 A (includes MLC 226 IP and IRCM-DV+)

All other models ..... 12 VDC, 0.495 A (0.515 A with 1 IRCM-DV+ connected)

NOTE: An MLC 226 Series controller must be powered by its own power supply. It cannot be powered by an MLS switcher.

Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Rack mount

MLC 226 IP DV+ ..... No, but wall- and furniture-mountable

All other models ..... Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits

Enclosure dimensions

MLC 226 faceplate ..... 4.5" H x 6.4" W x 0.1" D
(11.4 cm H x 16.3 cm W x 0.3 cm D) (3 gang)

MLC 226 AAP, MLC 226 IP DV+ faceplates ..... 4.5" H x 10.0" W x 0.1" D
(11.4 cm H x 25.4 cm W x 0.3 cm D) (5 gang)

MLC 226 L faceplate ..... 3.15" H x 6.5" W x 0.1" D
(8.0 cm H x 16.5 cm W x 0.3 cm D)

Device

MLC 226 IP DV+ ..... 2.75" H x 5.3" W x 2.0" D
(7.0 cm H x 13.5 cm W x 5.9 cm D) and
2.7" H x 2.6" W x 0.9" D (6.9 cm H x 6.6 cm W x 2.3 cm D)
(Depth excludes knob and buttons. Fits some 5 gang boxes. Allow at least 2.1" (5.3 cm) depth in the wall or furniture.)

All other models ..... 2.75" H x 5.3" W x 2.0" D
(7.0 cm H x 13.5 cm W x 5.9 cm D)
(Depth excludes knob and buttons. Fits some 3 gang boxes)

Product weight

MLC 226 IP DV+ ..... 2.1 lbs (1.0 kg)

All other models ..... 1.9 lbs (0.9 kg)

Shipping weight ..... 6 lbs (3 kg)

Vibration ..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety ..... CE, C-tick, CUL, UL

EMI/EMC ..... CE, C-tick, FCC Class A, VCCI, ICES

Accessibility ..... Complies with the appropriate requirements of Section 508 of the Rehabilitation Act (29U.S.C.794d).

MTBF ..... 30,000 hours

Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part Number
MLC 226 IP	Controller w/Three-Gang Faceplate	60-600-0X
MLC 226 IP AAP	Controller w/AAP Opening	60-600-1X
MLC 226 IP DV+	Controller w/Integrated DVD & VCR Control	60-600-82
MLC 226 IP L	Controller w/Lectern Faceplate	60-600-3X

Included Accessories

MLC 226 IP / MLC 226 IP DV+ / MLC 226 IP AAP / MLC 226 IP L

12V/1Amp power supply 70-055-01

Button label text 33-954-01

Button label icon 33-955-01

Specifications are subject to change without notice.

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